

## Gulf of Mexico Harmful Algal Bloom Bulletin

28 August 2006

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: August 24, 2006

### Conditions Report

Patchy high impacts are possible today through Thursday for Manatee, southern Sarasota, and northern Charlotte Counties. Patchy moderate impacts are possible for northern Sarasota, southern Charlotte, and northern Collier Counties today, Wednesday, and Thursday, with patchy very low impacts expected on Tuesday. Patchy low impacts are possible today, Wednesday, and Thursday for southern Lee County, with patchy very low impacts possible on Tuesday.

### Analysis

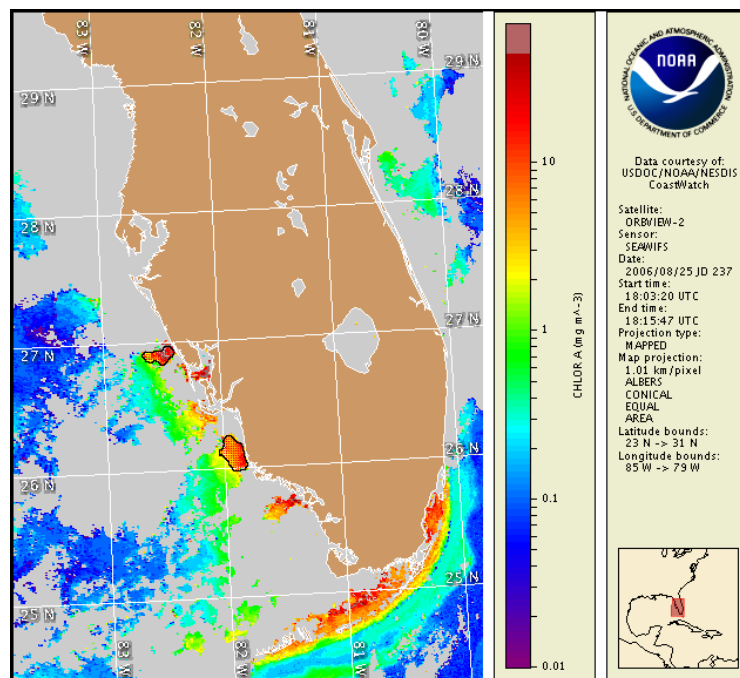
The harmful algal bloom has been confirmed in Manatee County and continues to persist through northern Collier County. Medium to high concentrations were found in Manatee County alongshore at Anna Maria Island and Cortez (FWRI; 8/22) and are located in patches through Englewood Beach, Stump Pass, and Gasparilla Pass in Charlotte County. Present to low concentrations extend in patches from Lee to Collier County. Medium concentrations were found at Naples Pier, Collier County early last week (8/21); however, more recent sampling results confirmed very low concentrations on 8/24 (Collier County Dept of Health). Imagery remains cloudy for most of southwest Florida, with the exception of a notable high chlorophyll patch offshore of Collier County (8/25). Chlorophyll concentrations are  $>10 \mu\text{g/L}$  with a northern extent of  $26^\circ 13'34''\text{N}$ ,  $81^\circ 54'26''\text{W}$  and a southern extent of  $26^\circ 1'20''\text{N}$ ,  $81^\circ 49'40''\text{W}$  on the eastern most edge of the feature, extending approximately 16 miles offshore. This indicates that higher concentrations of *K. brevis* might be present offshore Collier County. Continued sampling is recommended.

Tropical Storm conditions later this week may cause resuspension in coastal waters and potentially bring higher concentrations onshore.

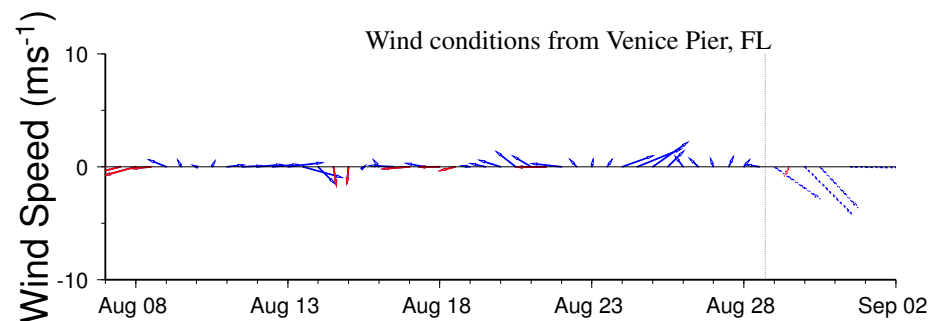
~ Keller, Fisher

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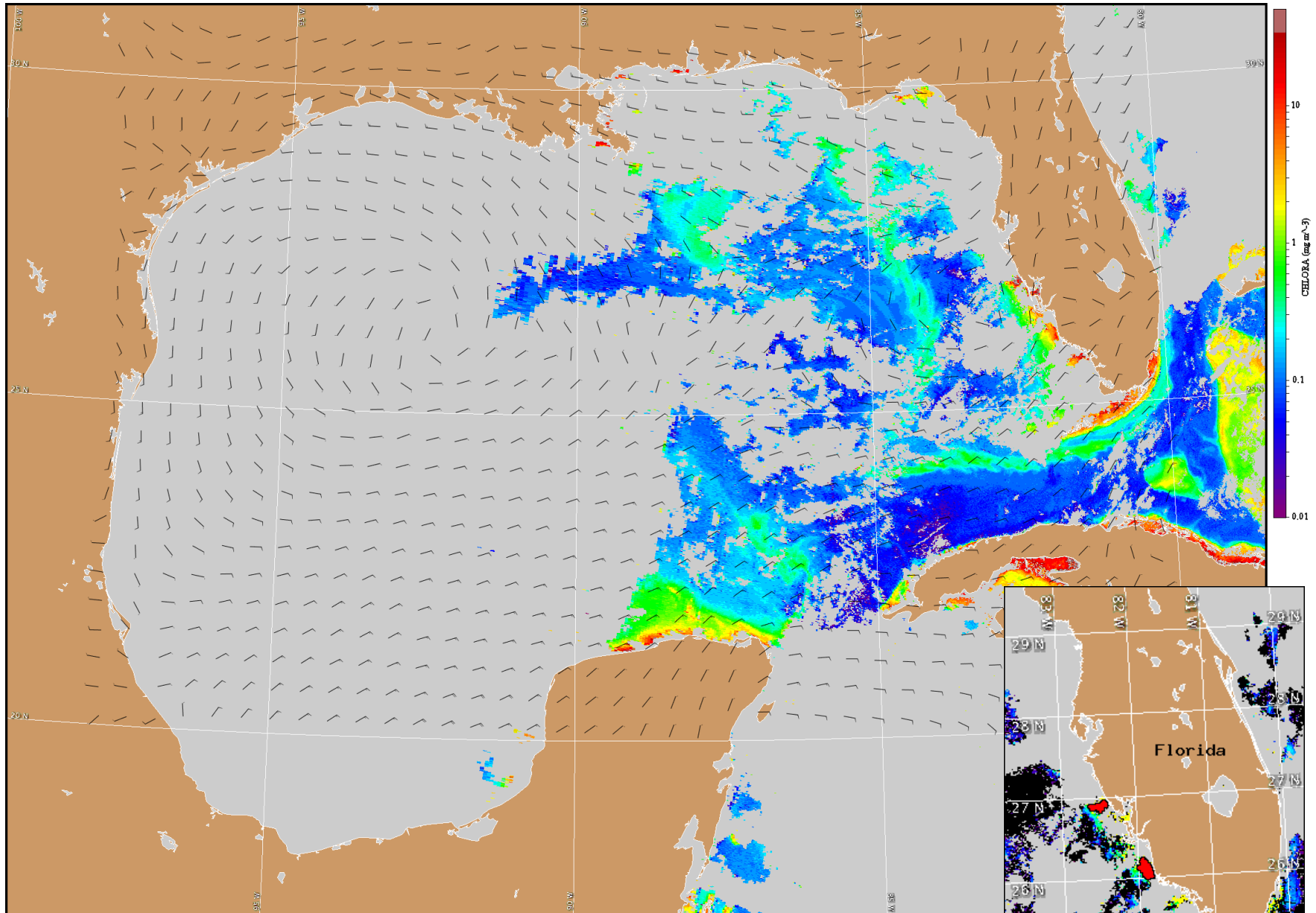
Satellite chlorophyll image with possible HAB areas shown by red polygon(s).



Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

Manatee and Sarasota County: Variable winds today, becoming onshore in the afternoon (5-10 knots; 3-5 m/s). Northeasterly winds on Tuesday (10-15 knots; 5-8 m/s). Northerly to northwesterly winds on Wednesday, with westerly winds on Thursday (15-20 knots; 8-10 m/s).

Charlotte, Lee, and Collier Counties: Variable winds today, becoming northeasterly tonight (5-10 knots; 3-5 m/s). Northeasterly winds on Tuesday, with north winds Tuesday night (10-15 knots; 5-8 m/s). Northwest-erly winds on Wednesday, with westerly winds on Wednesday night (20 knots; 10 m/s). Southwesterly winds on Thursday (15-20 knots; 8-10 m/s).



Satellite chlorophyll image and forecast winds for August 29, 2006 12Z.

Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).

